

Compact Hi-Fi Stereo System

Operating Instructions

Owner's Record

The model and serial numbers are located on the rear panel. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. _____ Serial No. _____



LBT-DR330 LBT-S3000
LBT-DR3 LBT-XB200

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

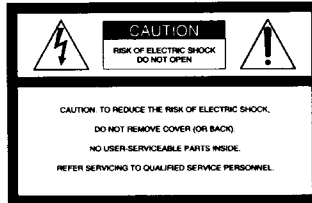
To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

NOTICE FOR THE CUSTOMERS IN THE U.S.A.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION

The use of optical instruments with this product will increase eye hazard.

INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Note on CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.


NOTICE FOR THE CUSTOMERS IN CANADA

CAUTION:

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

This system is equipped with the Dolby® B-type noise reduction system.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.



A946

(LBT-XB200 only)

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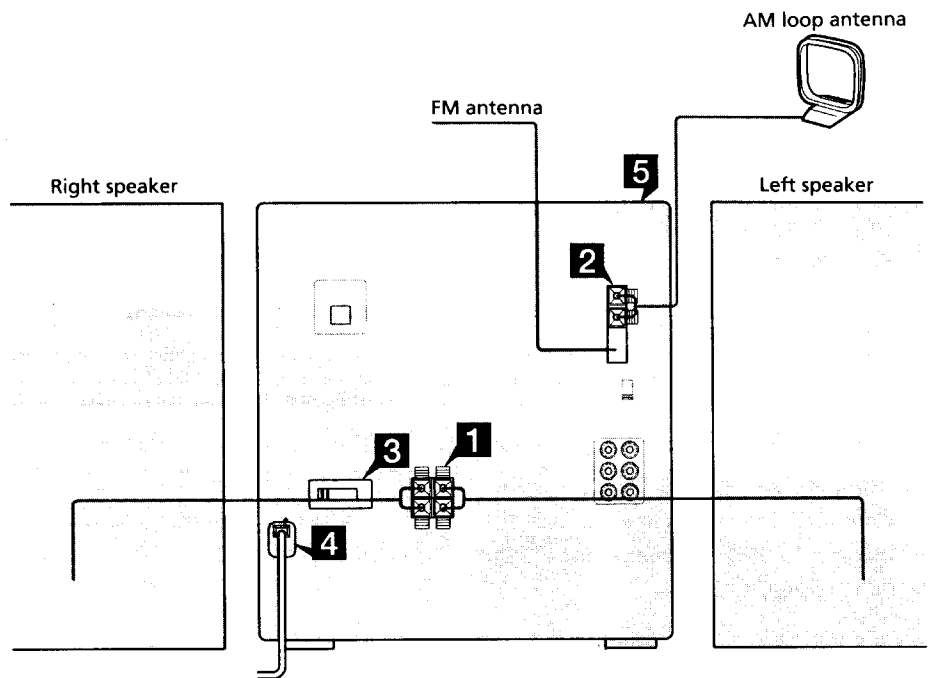
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Getting Started

Step 1: Hooking up the system

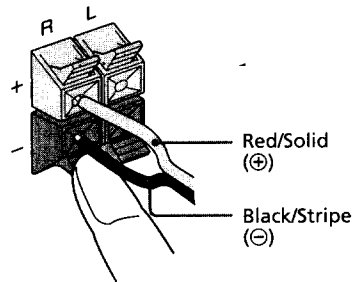
Follow steps **1** through **5** to hook up your system using the supplied cords and accessories.



The above illustration is of the LBT-DR3.

1 Connect the speakers.

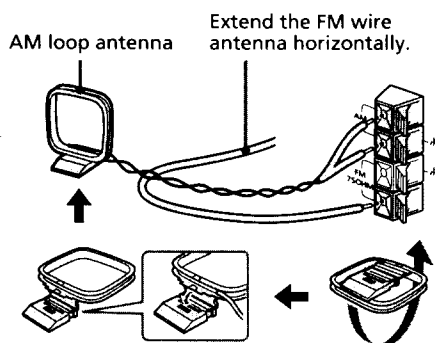
- 1** Connect the speaker cords to **SPEAKER** jacks.
Keep the speaker cords away from the antennas to prevent noise.



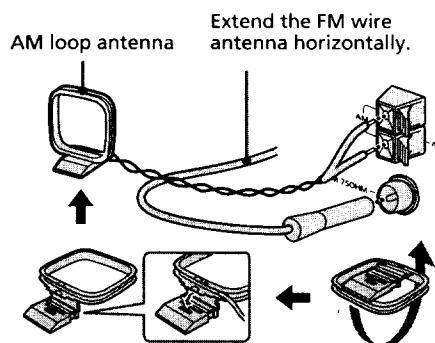
- 2** Insert only the stripped portion of the cord. Inserting the vinyl portion will interfere with the speaker connection and no sound will come from the speaker.

- 2** Connect the FM/AM antennas. Set up the AM loop antenna, then connect it.

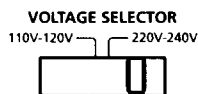
Except for European models



For European models



- 3** If your system has a VOLTAGE SELECTOR on the rear panel, set it to the position of your local power line voltage.



- 4** Connect the power cord to a wall outlet. The demonstration appears in the display. If the supplied adapter on the plug does not fit your wall outlet, detach it from the plug (only for models equipped with an adapter).

- 5** Deactivate the demonstration mode by pressing DISPLAY/DEMO while the system is off.

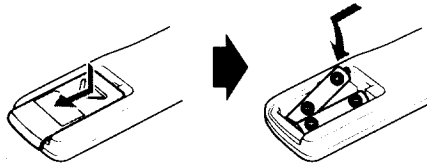
To connect optional AV components

See page 28.

continued

Step 1: Hooking up the system (continued)

Inserting two size AAA (R03) batteries into the remote



Tips

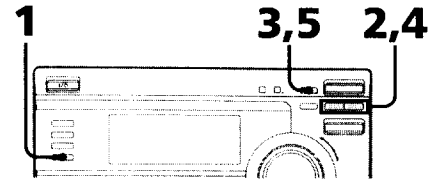
- With normal use, the batteries should last for about six months. When the remote no longer operates the system, replace both batteries with new ones.
- When you set the time, the demonstration is deactivated.
To activate the demonstration again, press DISPLAY/DEMO while the system is off.

Note

If you do not use the remote for a long period of time, remove the batteries to avoid possible damage from battery leakage.

Step 2: Setting the time

You must set the time before using the timer functions. The clock is on a 24-hour system for the European and Brazilian models, and a 12-hour system for other models. The 24-hour system model is used for illustration purposes.



- 1** Press /CLOCK SET.
The hour indication flashes.



- 2** Press TUNING +/- to set the hour.



- 3** Press ENTER/NEXT.
The minutes indication flashes.



- 4** Press TUNING +/- to set the minutes.



- 5** Press ENTER/NEXT.
The clock starts.

Tip

If you make a mistake, start over from step 1.

Note

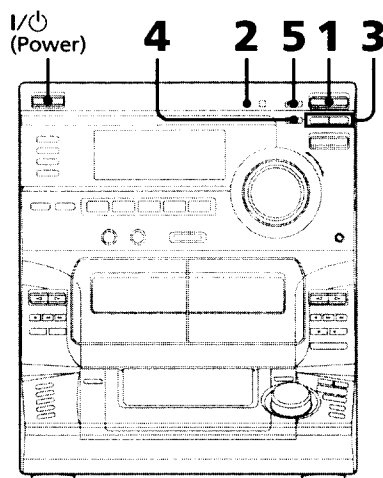
The clock setting is canceled when you disconnect the power cord or if a power failure occurs.

Step 3: Presetting radio stations

You can preset the following number of stations:

20 for FM and 10 for AM

The bands you can select depend on the kind of tuner built into your system. Confirm the bands by pressing TUNER/BAND repeatedly.



- 1** Press TUNER/BAND repeatedly until the desired band appears in the display.

Each time you press this button, the band changes as follows:

FM ↔ AM

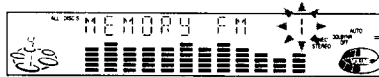
continued

Step 3: Presetting radio stations (continued)

- 2 Press TUNING MODE repeatedly until "AUTO" appears in the display.
- 3 Press TUNING +/-.
The frequency indication changes and scanning stops when the system tunes in a station. "TUNED" and "STEREO" (for a stereo program) appear.



- 4 Press TUNER MEMORY.
The next available preset number flashes in the display. The stations are stored from preset number 1.



- 5 Press ENTER/NEXT.
The station is stored.
- 6 Repeat steps 1 through 5 to store other stations.

To tune in a station with a weak signal

Press TUNING MODE repeatedly until "MANUAL" appears in step 2, then press TUNING +/- to tune in a station.

To store another station on an existing preset number

Start over from step 1. After step 4, press TUNING +/- to select the preset number on which you want to store the station. You can add a new preset number after the last preset number.

To erase a preset number

- 1 Press and hold TUNER MEMORY until the preset number flashes in the display.
- 2 Press TUNING +/- to select the preset number you want to erase. Select "ALL ERASE" to erase all preset numbers.

- 3 Press ENTER/NEXT.

When you erase a preset number, all the following preset numbers shift up and reduce by one.

To change the AM tuning interval (for models with the AM TUNING STEP switch on the rear panel)

The AM tuning interval is factory-preset to 9 kHz (10 kHz in some areas). To change the AM tuning interval, turn off the system and set the AM TUNING STEP switch on the rear panel to 10 kHz (or 9 kHz). Then turn the system back on. When you change the interval, all the preset stations will be erased.

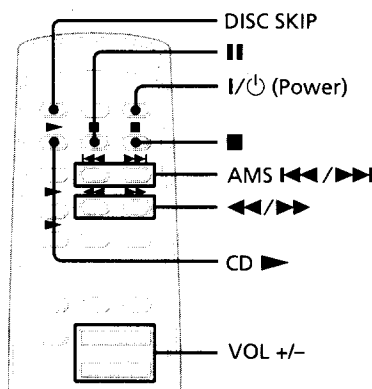
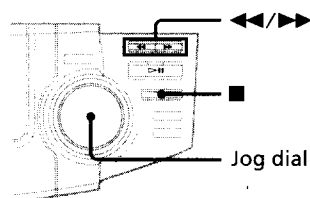
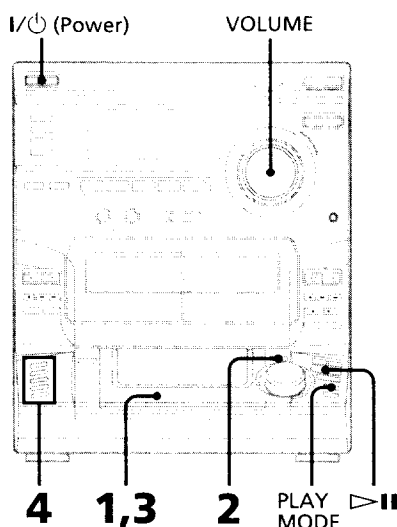
Note

The preset stations are canceled when you disconnect the power cord or if a power failure occurs for more than half a day.

Playing a CD

— Normal Play

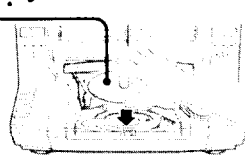
You can play up to five CDs in a row.



- 1 Press PUSH OPEN and place a CD on the disc tray.

If the disc is not placed properly, it will not be recognized.

With the label side up. When you play a CD single, place it on the inner circle of the tray.



- 2 Press DISC SKIP to place up to four more CDs on the tray.

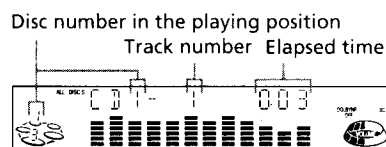
The disc tray rotates so you can insert other CDs.

- 3 Close the front cover.

- 4 Press one of the DISC 1 – DISC 5 buttons.

Playback starts.

If you press ▷|| (or CD ▷ on the remote), playback starts from the CD in the playing position.



Basic Operations

continued

To	Do this
Stop playback	Press ■.
Pause	Press ▷ (or on the remote). Press ▷ again to resume playback (or CD ► on the remote).
Select a track	During playback or pause, turn the jog dial clockwise (to go forward) or counterclockwise (to go backward) and release it when you reach the desired track. Or press AMS* ►► (to go forward) or AMS ◄◄ (to go backward) on the remote.
Find a point in a track	Press and hold ►► or ◄◄ during playback, and release at the desired point.
Select a CD	Press one of the DISC 1 – DISC 5 buttons (or DISC SKIP).
Play only the CD you have selected	Press PLAY MODE repeatedly until "1 DISC" appears.
Play all CDs	Press PLAY MODE repeatedly until "ALL DISCS" appears.
Remove or change the CDs	Press PUSH OPEN.
Adjust the volume	Turn VOLUME (or press VOL +/- on the remote).

* AMS: Automatic Music Sensor

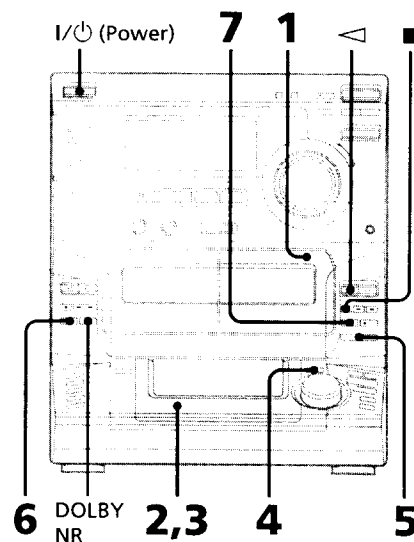
Tips

- Pressing ▷|| while the system power is off automatically turns on the system and starts CD playback if there is a CD on the tray (One Touch Play).
- You can switch from another source and begin playing a CD just by pressing ▷||, one of the DISC 1 – DISC 5 buttons, or CD ► on the remote (Automatic Source Selection).
- If there is no CD in the player, "NO DISC" appears in the display.
- You can change the CDs which are in the loading position during playback.

Recording a CD

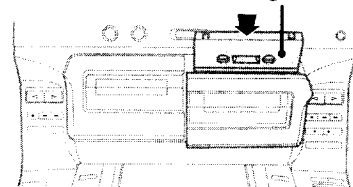
— CD Synchro Recording

This function lets you easily record from a CD to a tape. You can use TYPE I (normal) tapes. The recording level is automatically adjusted.



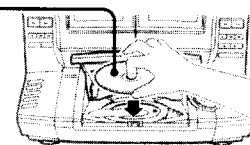
- 1 Press PUSH ▲ and insert a blank tape into deck B.

With the side you want to record on facing forward



- 2 Press PUSH OPEN and place a CD.

With the label side up. When you play a CD single, place it on the inner circle of the tray.



- 3 Close the front cover.
- 4 Press DISC SKIP repeatedly until the disc number you want to record appears in the playing position indicator.
- 5 Press CD SYNC.
Deck B stands by for recording, the CD player stands by for playback, and the indicator on the ▷ button (for the front side) lights up green.
- 6 Press DIRECTION repeatedly until ⇐ appears to record on one side or ⇔ (or RELAY) to record on both sides.
- 7 Press II.
Recording starts.

To stop recording

Press ■ on deck B or on the CD player.

Tips

- When you want to record on the reverse side, press ◀ after pressing CD SYNC in step 5 so the indicator on the ◀ button (for the reverse side) lights up green.
- When you record on both sides, be sure to start from the front side. If you start from the reverse side, recording stops at the end of the reverse side.
- When you want to reduce the hiss noise in low-level, high-frequency signals, press DOLBY NR before step 7 so "DOLBY NR B" appears in the display.

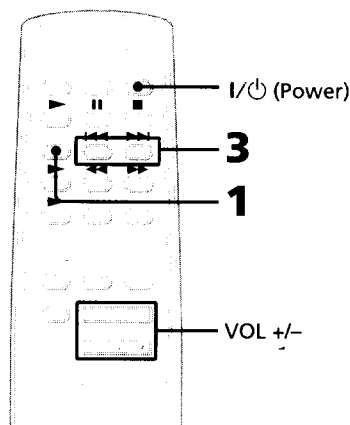
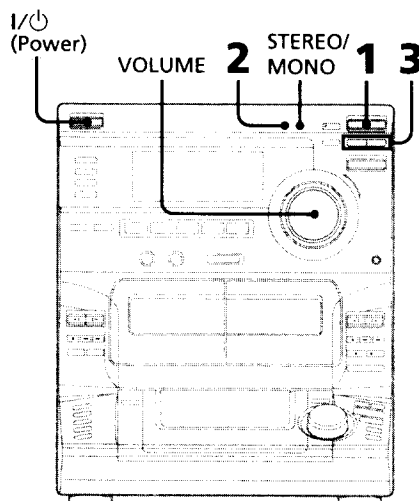
Note

You cannot listen to other sources while recording.

Listening to the radio

— Preset Tuning

Before using this function, preset radio stations in the tuner's memory (see "Step 3: Presetting radio stations" on page 7).



Basic Operations

continued

Listening to the radio (continued)

- 1 Press TUNER/BAND repeatedly until the desired band appears in the display.

Each time you press this button, the band changes as follows:

FM ↔ AM

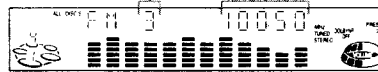
- 2 Press TUNING MODE repeatedly until "PRESET" appears in the display.

MANUAL → AUTO → PRESET



- 3 Press TUNING +/- (or ◀▶/▶▶ on the remote) to tune in the desired preset station.

Preset number Frequency



To	Do this
Turn off the radio	Press I/⏻.
Adjust the volume	Turn VOLUME (or press VOL +/- on the remote).

To listen to non-preset radio stations

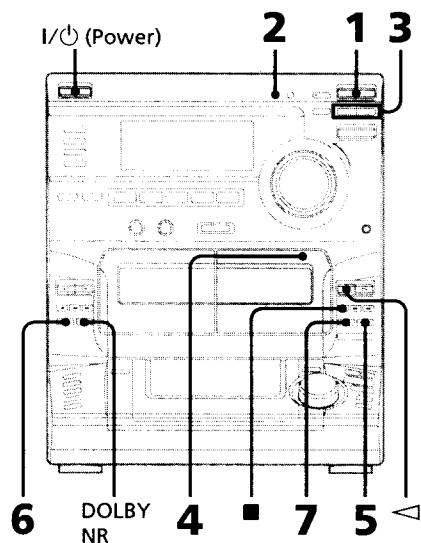
Press TUNING MODE repeatedly in step 2 until "MANUAL" appears, then press TUNING +/- to tune in the desired station.

Tips

- Pressing TUNER/BAND while the system power is off automatically turns on the system and tunes in the last received station (One Touch Play).
- You can switch from another source to the radio by pressing TUNER/BAND (Automatic Source Selection).
- If an FM program is noisy, press STEREO/MONO so "MONO" appears in the display. There will be no stereo effect, but the reception will improve. Press this button again to restore the stereo effect.
- To improve broadcast reception, move the supplied antennas.

Recording from the radio

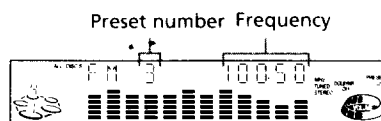
You can record a radio program on a tape by tuning in a preset station. You can use TYPE I (normal) tapes. The recording level is automatically adjusted.



1 Press TUNER/BAND repeatedly until the desired band appears in the display.

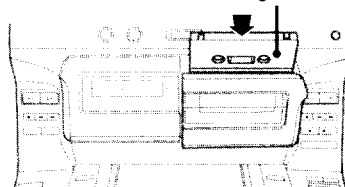
2 Press TUNING MODE repeatedly until "PRESET" appears in the display.

3 Press TUNING +/- to tune in the desired preset station.



4 Press PUSH and insert a blank tape into deck B.

With the side you want to record on facing forward



5 Press REC. Deck B stands by for recording, and the indicator on the button (for the front side) lights up green.

6 Press DIRECTION repeatedly until appears to record on one side or (or RELAY) to record on both sides.

7 Press . Recording starts.

To stop recording
Press on deck B.

Recording from the radio (continued)

Tips

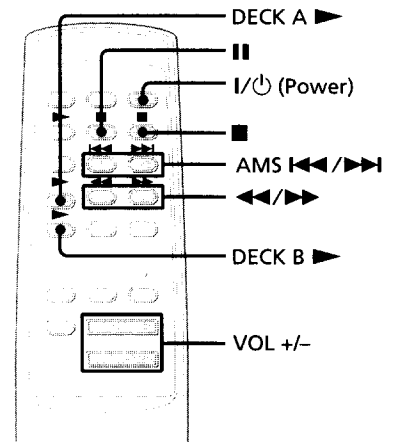
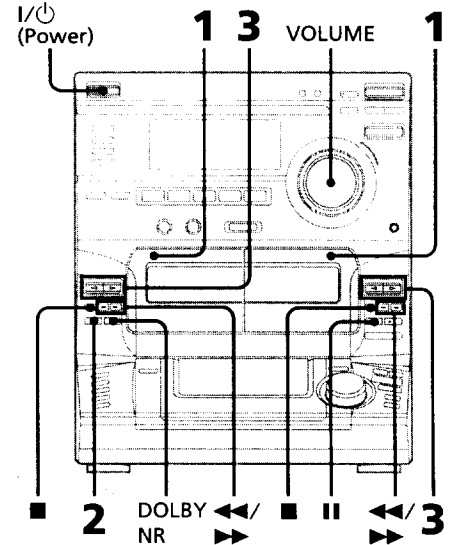
- When you want to record on the reverse side, press \triangleleft after pressing \bullet REC in step 5 so the indicator on the \triangleleft button (for the reverse side) lights up green.
- When you record on both sides, be sure to start from the front side. If you start from the reverse side, recording stops at the end of the reverse side.
- To record non-preset stations, select "MANUAL" in step 2, then press TUNING +/- to tune in the desired station.
- When you want to reduce the hiss noise in low-level, high-frequency signals, press DOLBY NR before step 7 so "DOLBY NR B" appears in the display.
- To improve broadcast reception, move the supplied antennas.

Playing a tape

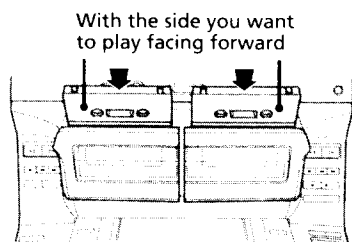
You can play a TYPE I (normal) tape. You can also use the AMS* functions to locate quickly the desired songs.

To select either deck A or B, press DECK A \blacktriangleright or DECK B \blacktriangleright on the remote.

* AMS: Automatic Music Sensor



- 1 Press **PUSH** and insert a recorded tape in deck A or B.



- 2 Press **DIRECTION** repeatedly to select to play one side, * to play both sides, or **RELAY** (Relay Play)** to play both decks in succession.

- 3 Press .
Press to play the reverse side. The tape starts playing.

* The deck stops automatically after playing both sides five times.

**Relay Play always plays according to the following sequence:
Deck A front side, Deck A reverse side,
Deck B front side, Deck B reverse side.

To	Do this
Stop play	Press .
Pause (Deck B only)	Press . Press again to resume playback.
Fast-forward*	Press or .
Rewind*	Press or .
Remove the cassette	Press PUSH .
Adjust the volume	Turn VOLUME (or press VOL +/- on the remote).

* You cannot fast-forward or rewind a tape in one deck while you play back a tape in the other deck.

Searching for the start of the current or the next track (AMS*)

To go forward

Press during play when the indicator is lit. "TAPE A (or TAPE B) >>> +1" appears.
Press during play when the indicator is lit. "TAPE A (or TAPE B) <<< +1" appears.

To go back

Press during play when the indicator is lit. "TAPE A (or TAPE B) <<< -1" appears.
Press during play when the indicator is lit. "TAPE A (or TAPE B) >>> -1" appears.

* Automatic Music Sensor

Tips

- Pressing or while the system power is off automatically turns on the system and starts tape playback if there is a tape in the deck (One Touch Play).
- You can switch from another source to the tape deck by pressing or (Automatic Source Selection).
- You can fast-forward or rewind the tape, regardless of the selected source.
- When you want to reduce the hiss noise in low-level, high-frequency signals, press **DOLBY NR** so "DOLBY NR B" appears in the display.

Notes

The AMS function may not operate correctly under the following circumstances:

- When the unrecorded space between songs is less than 4 seconds long.
- If completely different information is recorded on the left and right channels.
- When there are continuous sections of extremely low level or low frequency sound (like those of a baritone sax).
- When the system is placed near a TV. (In this case, we recommend moving the unit farther away from the TV or turning off the TV.)

The CD Player

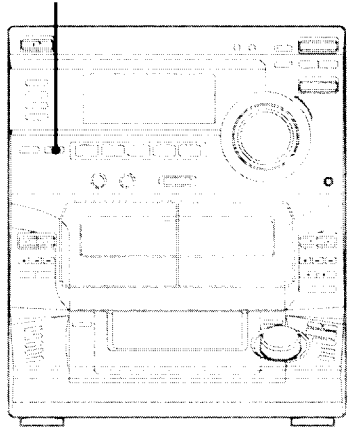
Using the CD display

To check the total playing time and the number of tracks on a CD

Press DISPLAY/DEMO in stop mode. If you press DISPLAY/DEMO again, the clock display appears for a few seconds then the display returns to the previous indication.

You can check the remaining time of the current track.

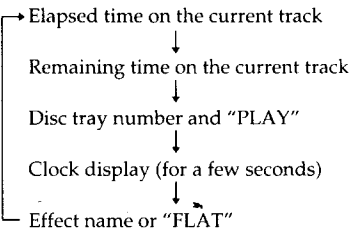
DISPLAY/DEMO



➔ Press DISPLAY/DEMO.

Each time you press this button during Normal Play, the display changes as follows:

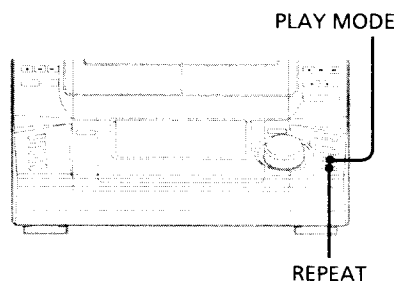
During Normal Play



Playing CD tracks repeatedly

— Repeat Play

This function lets you repeat a single CD or all CDs in Normal Play, Shuffle Play, and Program Play.



➔ Press REPEAT repeatedly during playback until "REPEAT" appears in the display.

Repeat Play starts. The following table describes the various repeat modes.

To repeat	Press
All the tracks on the current CD	PLAY MODE repeatedly until "1 DISC" appears in the display.
All the tracks on all CDs	PLAY MODE repeatedly until "ALL DISCS" appears in the display.
Only one track	REPEAT repeatedly while playing the track you want to repeat until "REPEAT 1" appears in the display.

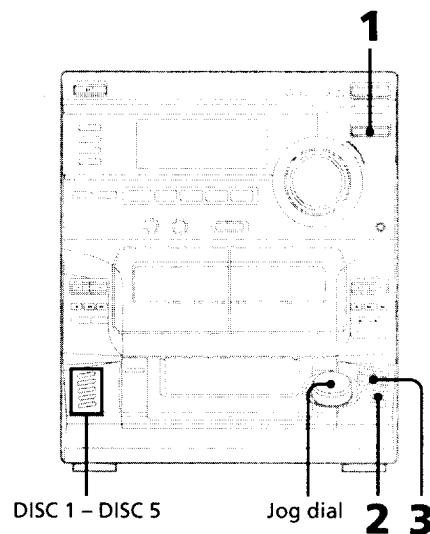
To cancel Repeat Play

Press REPEAT repeatedly until "REPEAT" or "REPEAT 1" disappears from the display.

Playing CD tracks in random order

— Shuffle Play

You can play all the tracks on one or all CDs in random order.



1 Press FUNCTION repeatedly until "CD" appears in the display.

2 Press PLAY MODE repeatedly until "ALL DISCS SHUFFLE" or "1 DISC SHUFFLE" appears in the display. "ALL DISCS SHUFFLE" shuffles the tracks on all the CDs in the player. "1 DISC SHUFFLE" shuffles the tracks on the CD in the playing position.

3 Press ▷||. All the tracks play in random order.

continued

**Playing CD tracks in random order
(continued)**

To cancel Shuffle Play

Press PLAY MODE repeatedly until "ALL DISCS SHUFFLE," "1 DISC SHUFFLE," or "PROGRAM" disappears from the display. The tracks continue playing in their original order.

To select the desired CD

Press one of the DISC 1 – DISC 5 buttons during 1 Disc Shuffle Play.

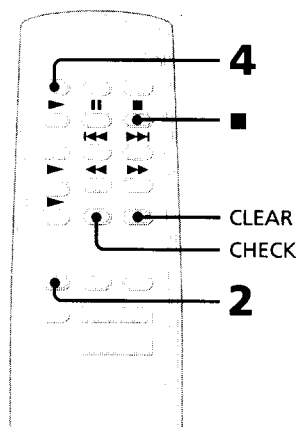
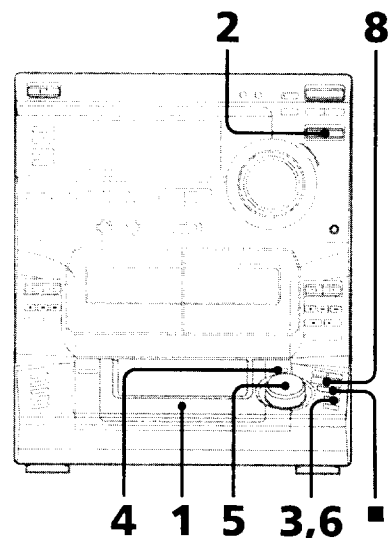
Tips

- You can start Shuffle Play during Normal Play by pressing PLAY MODE repeatedly until "ALL DISCS SHUFFLE" or "1 DISC SHUFFLE" appears in the display.
- To skip a track, turn the jog dial clockwise (or press AMS ►► on the remote).

Programming CD tracks

— Program Play

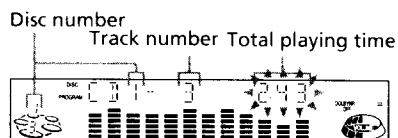
You can create a program of up to 32 tracks from all the CDs in the order you want them to be played.



- 1** Place CDs and close the front cover.
- 2** Press FUNCTION repeatedly until "CD" appears in the display.
- 3** Press PLAY MODE repeatedly until "PROGRAM" appears in the display.

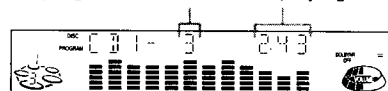
- 4** Press DISC SKIP to select a CD.

- 5** Turn the jog dial until the desired track appears in the display.



- 6** Press PLAY MODE once.
The track is programmed. First "STEP" and the programmed playing order appear, then the total playing time appears.

The last programmed track Total playing time



- 7** Repeat steps 4 through 6 to program additional tracks.
Skip step 4 to select tracks from the same disc.

- 8** Press **▷||**.
All the tracks play in the order you selected.

To cancel Program Play

Press PLAY MODE repeatedly until "PROGRAM," "ALL DISCS SHUFFLE," or "1 DISC SHUFFLE" disappears from the display.

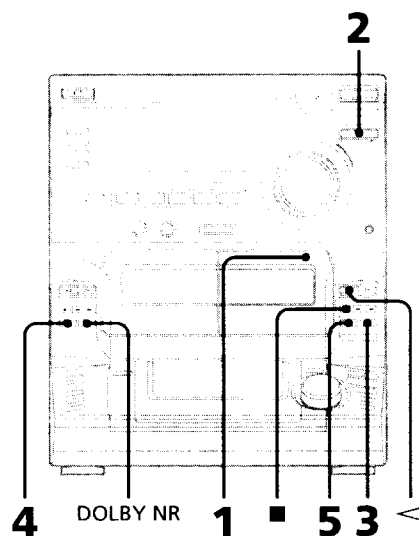
To	Press
Check the program	CHECK on the remote repeatedly. After the last track, "CHECK END" appears.
Clear the last selected track	CLEAR on the remote in stop mode.
Clear a specific track	CHECK on the remote repeatedly until the number of the track to be cleared lights up, then press CLEAR.
Add a track to the program	<ol style="list-style-type: none"> 1 Press DISC SKIP to select a CD. 2 Turn the jog dial to select a track. 3 Press PLAY MODE.
Clear the entire program	■ once in stop mode or twice while playing.

Tips

- The program you created remains in the CD player's memory even after it has been played. Press **▷||** to play the same program again.
- If "--" appears instead of the total playing time while programming, this means:
 - you have programmed a track numbered over 20, or
 - the total playing time has exceeded 100 minutes.

Recording on a tape manually

You can record from CDs, tapes, or the radio. For example, you can record just the desired songs or begin recording from the middle of a tape. The recording level is automatically adjusted.



- 1** Insert a blank tape into deck B.
- 2** Press **FUNCTION** repeatedly until the source you want to record (e.g., CD) appears in the display.
- 3** Press **● REC**.
Deck B stands by for recording, and the indicator on the **▷** button (for the front side) lights up green.
- 4** Press **DIRECTION** repeatedly until **⇌** appears to record on one side or **↔** (or RELAY) to record on both sides.

- 5** Press **⏏**.
Recording starts.
- 6** Start playing the source to be recorded.

To	Press
Stop recording	■ on deck B.
Pause recording	⏏ .

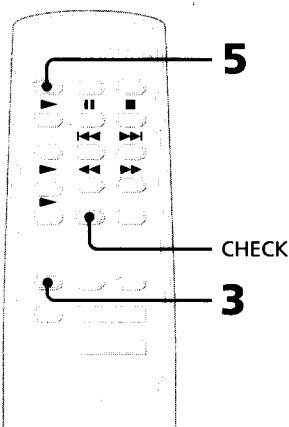
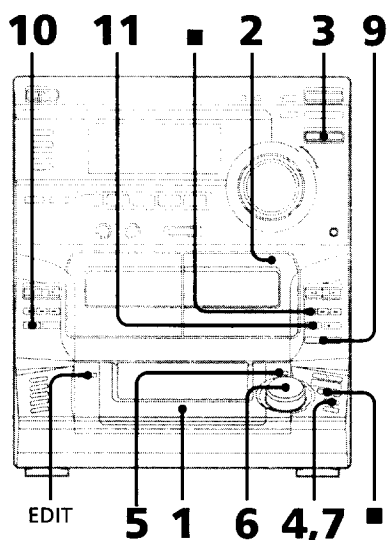
Tips

- When you want to record on the reverse side, press **◀** after pressing **● REC** in step 3 so the indicator on the **◀** button (for the reverse side) lights up green.
- When you want to reduce the hiss noise in low-level, high-frequency signals, press **DOLBY NR** before step 5 so "DOLBY NR B" appears in the display.

Recording CDs by specifying the track order

— Program Edit

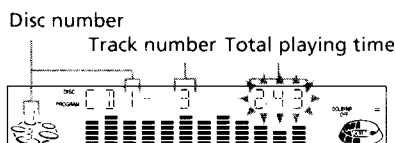
You can record tracks from all the CDs in the order you want. When programming, make sure the playing times for each side do not exceed the length of one side of the tape.



- 1 Place CDs and close the front cover.
- 2 Insert a blank tape into deck B.
- 3 Press FUNCTION repeatedly until "CD" appears in the display.
- 4 Press PLAY MODE repeatedly until "PROGRAM" appears in the display.

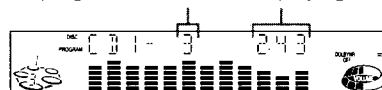
- 5 Press DISC SKIP to select a CD.

- 6 Turn the jog dial until the desired track appears in the display.



- 7 Press PLAY MODE once.
The track is programmed. First "STEP" and the programmed playing order appear, then the total playing time appears.

The last programmed track Total playing time



- 8 Repeat steps 5 through 7 to program additional tracks to be recorded on side A.
Skip step 5 to select tracks from the same disc.

continued

Recording CDs by specifying the track order (continued)

- 9** Press CD SYNC.
Deck B stands by for recording, the CD player stands by for playback, and the indicator on the \triangleright button (for the front side) lights up green.
- 10** Press DIRECTION repeatedly until \rightleftarrows appears to record on one side or \longleftrightarrow (or RELAY) to record on both sides.
- 11** Press II.
Recording starts.

To stop recording

Press ■ on deck B or on the CD player.

To check the order

Press CHECK on the remote repeatedly. After the last track, "CHECK END" appears.

To cancel Program Edit

Press PLAY MODE repeatedly until "PROGRAM," "ALL DISCS SHUFFLE," or "1 DISC SHUFFLE" disappears from the display.

Selecting the tape length automatically

— Tape Select Edit

You can check the most suitable tape length for recording a CD. Note that you cannot use Tape Select Edit for discs containing more than 20 tracks.

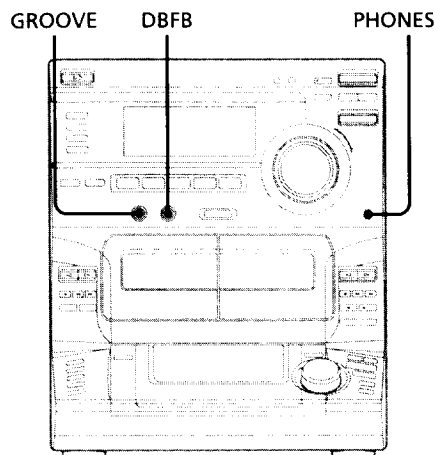
- 1** Press PUSH OPEN and place a CD on the disc tray.
If the disc number you want to record doesn't appear, press DISC SKIP repeatedly so that it appears.
- 2** Press FUNCTION repeatedly until "CD" appears in the display.
- 3** Press EDIT once, so that "EDIT" flashes.
The required tape length for the currently selected CD appears, followed by the total playing time for side A and side B respectively.

Note

You cannot use this function after programming. In order to use this function, you must first cancel the program by pressing PLAY MODE repeatedly until "PROGRAM," "ALL DISCS SHUFFLE" or "1 DISC SHUFFLE" disappears from the display.

Adjusting the sound

You can reinforce the bass, create a more powerful sound, and listen with headphones.



To reinforce bass (DBFB)

Press DBFB*.

Each time you press this button, the DBFB level display changes as follows:

DBFB ■■■ → DBFB ■■■■■ → DBFB OFF

"DBFB ■■■■■" means "DBFB HIGH" and
"DBFB ■■■" means "DBFB NORMAL".

* DBFB = Dynamic Bass Feedback

For a powerful sound (GROOVE)

Press GROOVE.

The volume switches to power mode, the equalizer curve changes, DBFB level changes to "HIGH," and the indicator on the GROOVE button lights up. Press GROOVE again to return to the previous volume.

Notes

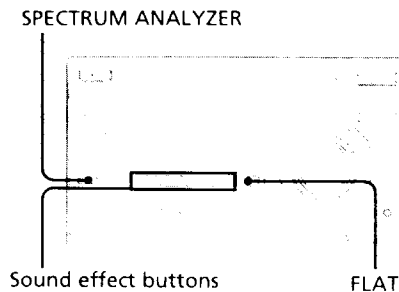
- With some songs, the music will sound distorted when you use the DBFB system with the sound effect if the bass is too strong. Set the DBFB to "NORMAL," or "OFF", or cancel the sound effect (see page 24).
- Canceling GROOVE sets DBFB to "DBFB ■■■" and flattens the equalizer curve. To cancel the DBFB level, press DBFB until the indication disappears.

To listen through the headphones

Connect the headphones to the PHONES jack. No sound will come from the speakers.

Selecting the audio emphasis

The audio emphasis menu lets you select the sound characteristics according to the music you are listening to.



- ➔ Press one of the sound effect buttons (ROCK, POPS, JAZZ or SALSA) you desire (or press FILE SELECT on the remote repeatedly until the indicator on the desired effect button lights up).

To cancel the audio emphasis

Press FLAT so that the indicator on the sound effect button goes off.

Tip

"SUR [|||||]" appears if you select an audio emphasis with a surround effect.

Changing the equalizer display

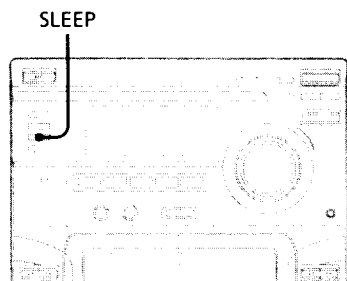
You can change the equalizer display according to the music you are listening to.

- ➔ Press SPECTRUM ANALYZER. The display changes to show the display pattern. It changes according to the music you are listening to.

Falling asleep to music

— Sleep Timer

You can set the system to turn off at a preset time, so you can fall asleep listening to music. You can preset the remaining time in 10 minute increments.



➔ Press SLEEP.

Each time you press this button, the minutes display (the remaining time) changes as follows:

AUTO → 90MIN → 80MIN → 70MIN
 ↑
 OFF ← 10MIN 50MIN ← 60MIN

When you choose "AUTO"

The system turns off when the current CD or tape finishes playback (up to 100 minutes). The system turns off if you manually stop playing a CD or tape.

To check the remaining time

Press SLEEP once.

To change the remaining time

Press SLEEP repeatedly to select the desired time.

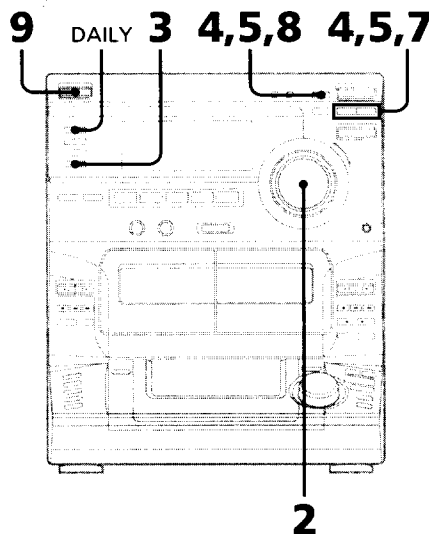
To cancel the Sleep Timer function

Press SLEEP repeatedly until "SLEEP OFF" appears in the display.

Waking up to music

— **Daily Timer**

You can wake up to music at a preset time every day. Make sure you have set the clock (see “Step 2: Setting the time” on page 6). The 24-hour system model is used for illustration purposes.



- 1 Prepare the music source you want to play.

- **CD:** Place a CD. To start from a specific track, create a program (see “Programming CD tracks” on page 18).
- **Tape:** Insert a tape with the side you want to play facing forward.
- **Radio:** Tune in the preset station you want (see “Step 3: Presetting radio stations” on page 7).

2 Turn **VOLUME** to adjust the volume.

Waking up to music (continued)

- 3** Press \odot /CLOCK SET.
"SET" appears and "DAILY" flashes in the display.
- 4** Press TUNING +/- to select "DAILY," then press ENTER/NEXT.
"ON" appears and the hour indication flashes in the display.



- 5** Set the time to start playback.
Press TUNING +/- to set the hour, then press ENTER/NEXT.
The minutes indication flashes.



Press TUNING +/- to set the minutes, then press ENTER/NEXT.
The hour indication flashes again.

- 6** Set the time to stop playback following the above procedure.
- 7** Press TUNING +/- until the desired music source appears.
The indication changes as follows:
TUNER ↔ CD PLAY ↔ TAPE PLAY
- 8** Press ENTER/NEXT.
The start time, the stop time, and the music source appear in turn before the original display returns.
- 9** Turn off the system.

To check the setting

- 1** Press DAILY.
- 2** "TIMER OFF" appears in the display.
- 3** Press DAILY again.

To cancel the timer operation

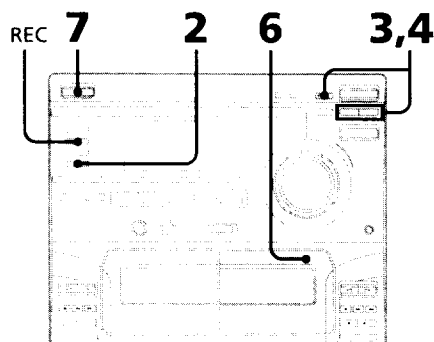
- 1** Press DAILY.
- 2** "TIMER OFF" appears in the display.

Notes

- The system turns on 15 seconds before the preset time.
- You cannot set the timer if the timer on and off times are the same.
- When you set the Sleep Timer, the Daily Timer will not turn on the system until the Sleep Timer turns it off.
- You cannot set the Daily Timer and Timer-recording to be activated at the same time.

Timer-recording radio programs

To timer-record, you must preset the radio station (see "Step 3: Presetting radio stations" on page 7) and set the clock (see "Step 2: Setting the time" on page 6) beforehand.



1 Tune in the preset radio station (see "Listening to the radio" on page 11).

2 Press \odot /CLOCK SET.
"SET" appears and "DAILY" flashes in the display.

3 Press TUNING +/- to select "REC," then press ENTER/NEXT.
"ON" appears and the hour indication flashes in the display.



4 Set the time to start recording.
Press TUNING +/- to set the hour, then press ENTER/NEXT.
The minutes indication flashes.



Press TUNING +/- to set the minutes, then press ENTER/NEXT.
The hour indication flashes again.

5 Set the time to stop recording following the above procedure.
The start time, the stop time, the recording source, and the preset station appear in turn before the original display returns.

6 Insert a blank tape in deck B.

7 Turn off the system.
When recording starts, the volume level is set to the minimum.

To check the setting

- 1 Press REC.
 - 2 "TIMER OFF" appears in the display.
 - 3 Press REC again.
- To change the setting, start over from step 1.

To cancel the timer operation

- 1 Press REC.
- 2 "TIMER OFF" appears in the display.

Notes

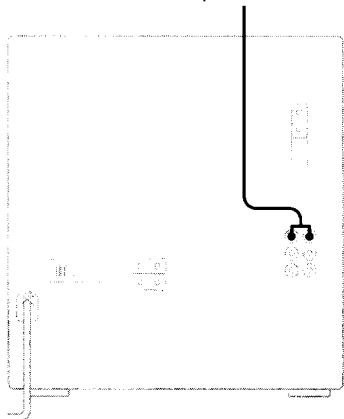
- The system turns on 15 seconds before the preset time.
- If the system is on at the preset time, the Timer recording will not be made.
- You cannot set the timer if the timer on and off times are the same.
- When you set the Sleep Timer, the Timer-recording will not start until the Sleep Timer turns off the system.
- You cannot set the Daily Timer and Timer-recording to be activated at the same time.
- Recording starts from the front side.

Connecting AV components

Connecting a turntable

Be sure to match the color of the plugs and the connectors. To listen to the sound from the connected turntable, press FUNCTION repeatedly until "PHONO" appears. Refer to the instructions included with your turntable for details.

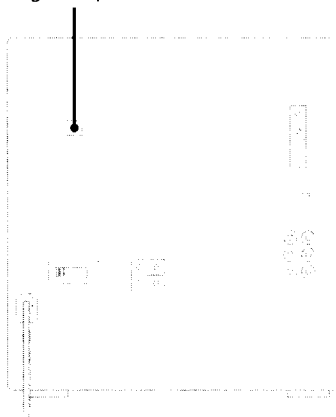
To the audio output of the turntable



Connecting an MD deck for digital recording

You can record a CD to an MD digitally by connecting your MD deck using an optical cable. Refer to the instructions included with your MD deck for details.

To the digital input of the MD deck



Note

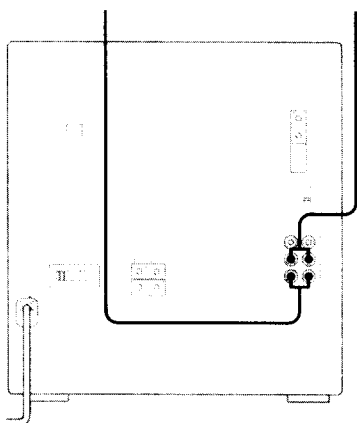
Using the turntable at high volume may cause distortion or howling. This is often caused by the bass sound from the speakers. The bass sound may be picked up by the needle of the turntable, and produce the distortion or howling. To avoid this, do the following:

- 1 Keep some distance between the speakers and the turntable.
- 2 Stop using the surround effect.
- 3 Install the speakers or the turntable on a firm and stable surface.

Connecting an MD deck for analog recording

Be sure to match the color of the plugs and the connectors. To listen to the sound of the connected MD deck, press FUNCTION repeatedly until "MD" appears. Refer to the instructions included with your MD deck for details.

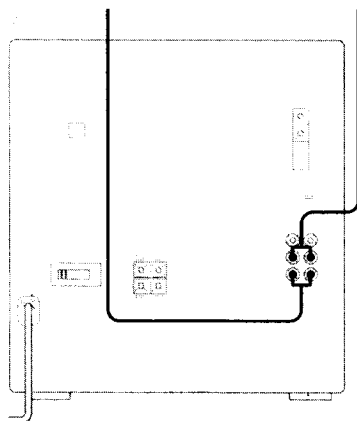
To the audio inputs of the MD deck To the audio outputs of the MD deck



Connecting a VCR

Be sure to match the color of the plugs and the connectors. To listen to the sound from the connected VCR, press FUNCTION repeatedly until "VIDEO" appears. Refer to the instructions included with your VCR for details.

To the audio input of the VCR To the audio output of the VCR



Note

If you cannot select "MD" by pressing FUNCTION, press I/⏻ while pressing FUNCTION when the system is turned off. "VIDEO" will be switched to "MD". To return to "VIDEO", do the same procedure.

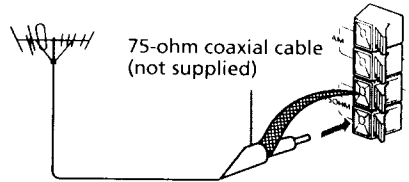
Connecting outdoor antennas

Connect an outdoor antenna to improve the reception. Refer to the instructions of each component.

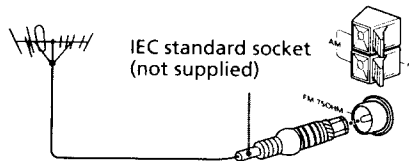
FM antenna

Connect an optional FM outdoor antenna. You can also use the TV antenna instead.

Except for European models



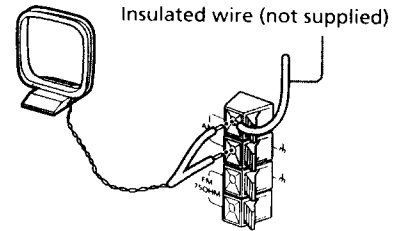
For European models



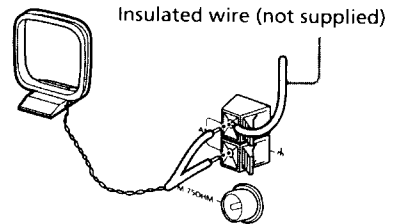
AM antenna

Connect a 6 to 15 meter (20 to 50 feet) insulated wire to the AM antenna terminal. Leave the supplied AM loop antenna connected.

Except for European models



For European models



Precautions

On operating voltage

Before operating the system, check that the operating voltage of your system is identical with the voltage of your local power supply.

On safety

- The system is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the system itself has been turned off.
- Unplug the system from the wall outlet (mains) if it is not to be used for an extended period of time. To disconnect the cord (mains lead), pull it out by the plug. Never pull the cord itself.
- Should any solid object or liquid fall into the system, unplug the system and have it checked by qualified personnel before operating it any further.
- The AC power cord must be changed only at the qualified service shop.

On placement

- Place the system in a location with adequate ventilation to prevent heat build-up in the system.
- Do not place the system in an inclined position.
- Do not place the system in locations where it is;
 - Extremely hot or cold
 - Dusty or dirty
 - Very humid
 - Vibrating
 - Subject to direct sunlight

On operation

- If the system is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the CD player. Should this occur, the system will not operate properly. Remove the CD and leave the system turned on for about an hour until the moisture evaporates.
- When you move the system, take out any discs.

If you have any questions or problems concerning your system, please consult your nearest Sony dealer.

Notes on CDs

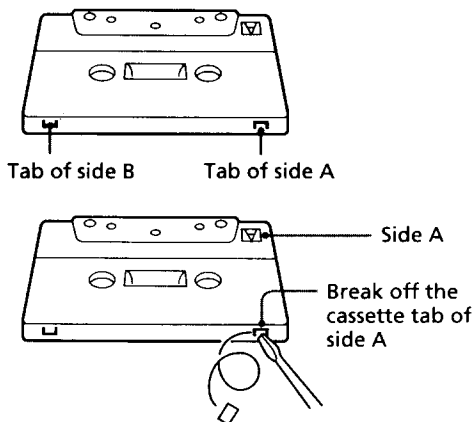
- Before playing, clean the CD with a cleaning cloth. Wipe the CD from the center out.
- Do not use solvents such as benzene, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.
- Do not expose the CD to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight.

Cleaning the cabinet

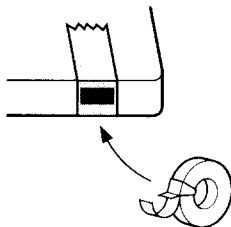
Use a soft cloth slightly moistened with mild detergent solution.

To save a tape permanently

To prevent a tape from being accidentally recorded over, break off the cassette tab from side A or B as illustrated.



If you later want to reuse the tape for recording, cover the broken tab with adhesive tape.



continued

Before placing a cassette in the tape deck

Take up any slack in the tape. Otherwise the tape may get entangled inside the tape deck and become damaged.

When using a tape longer than 90 minutes

The tape is very elastic. Do not frequently change the tape operations such as play, stop, and fast-forwarding, etc. The tape may get entangled in the tape deck.

Cleaning the tape heads

Clean the tape heads after every 10 hours of use. When the tape heads become dirty

- the sound is distorted
- there is a decrease in sound level
- the sound drops out
- the tape does not erase completely
- the tape does not record

Make sure to clean the tape heads before you start an important recording or after playing an old tape. Use a separately sold dry-type or wet-type cleaning cassette. For details, refer to the instructions of the cleaning cassette.

Demagnetizing the tape heads

Demagnetize the tape heads and the metal parts that have contact with the tape every 20 to 30 hours of use with a separately sold demagnetizing cassette. For details, refer to the instructions of the demagnetizing cassette.

Troubleshooting

If you run into any problem using this stereo system, use the following checklist.

First, check that the power cord is connected firmly and the speakers are connected correctly and firmly.

Should any problem persist, consult your nearest Sony dealer.

General

The display starts flashing as soon as you plug in the power cord even though you haven't turned on the system (demonstration mode).

- Press DISPLAY/DEMO while the system is off.

The demonstration appears automatically the first time you plug in the power cord, or a power failure occurs lasting longer than half a day.

The clock setting/radio presetting is canceled.

- The power cord is disconnected or a power failure occurs for more than half a day.

Redo the following procedures:

- "Step 2: Setting the time" on page 6.
- "Step 3: Presetting radio stations" on page 7.

To set the timer function again, also redo "Waking up to music" on page 25 and "Timer-recording radio programs" on page 27.

There is no sound.

- Turn VOLUME clockwise.
- The headphones are connected.
- Insert only the stripped portion of the speaker cord into the SPEAKER jack. Inserting the vinyl portion of the speaker cord will interfere with the speaker connection.
- The volume level is automatically set to the minimum during the Timer-recording.

There is severe hum or noise.


- A TV or VCR is placed too close to the stereo system. Move the stereo system away from the TV or VCR.

"0:00" (for European and Brazilian models) or "12:00AM" (for other models) flashes in the display.

- A power interruption occurred. Reset the clock and timer settings.

The timer does not function.

- Set the clock correctly.

"DAILY" and "REC" do not appear when you press /CLOCK SET.

- Set the timer correctly.
- Set the clock.

The remote does not function.

- There is an obstacle between the remote and the unit.
- The remote is not pointing in the direction of the system's sensor.
- The batteries have run down. Replace the batteries.

There is acoustic feedback.

- Decrease the volume level.
- Move the microphone away from the speakers or change the direction of the microphone.

The color irregularity on a TV screen persists.

- Turn off the TV set once, then turn it on after 15 to 30 minutes. If the color irregularity still persists, place the speakers farther away from the TV set.

Speakers

Sound comes from only one channel or the left and right volumes are unbalanced.

- Check the speaker connections and placement.

CD Player

The CD tray does not rotate.

- A CD is not placed properly.


A CD will not play.

- The CD is not lying flat in the disc tray.
- The CD is dirty.
- The CD is inserted label side down.
- Moisture condensation has built up. Remove the CD and leave the system turned on for about an hour until the moisture evaporates.

Play does not start from the first track.

- The player is in Program or Shuffle Play mode. Press PLAY MODE repeatedly until "PROGRAM," "ALL DISCS SHUFFLE," or "1 DISC SHUFFLE" disappears from the display.

"OVER" is displayed.

- You have reached the end of the CD. Press and hold  to return.

Tape Deck

The tape does not record.

- No tape is in the cassette holder.
- The tab has been removed from the cassette (see page 31).
- The tape has reeled to the end.

The tape does not record nor play, or there is a decrease in sound level.

- The heads are dirty. Clean them (see page 32).
- The record/playback heads are magnetized. Demagnetize them (see page 32).

The tape does not erase completely.

- The record/playback heads are magnetized. Demagnetize them (see page 32).

There is excessive wow or flutter, or the sound drops out.

- The capstans or pinch rollers are dirty. Clean them (see page 32).

Noise increases or the high frequencies are missing.

- The record/playback heads are magnetized. Demagnetize them (see page 32).

Tuner

Severe hum or noise ("TUNED" or "STEREO" flashes in the display).

- Adjust the antenna.
- The signal strength is too weak. Connect an external antenna.

A stereo FM program cannot be received in stereo.

- Press STEREO/MONO so "STEREO" appears in the display.

If other problems not described above occur, reset the system as follows:

- 1 Unplug the power cord.
- 2 Plug the power cord back in.

The system is reset to the factory settings. All the settings you made, such as the preset stations, clock, and timer are cleared. You should set them again.

Specifications

For the U.S. model

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL

HARMONIC DISTORTION:

With 6 ohm loads, both channels driven, from 70 – 20,000 Hz; rated 70 watts per channel minimum RMS power, with no more than 0.9% total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

(LBT-S3000)

Continuous RMS power output

80 + 80 watts
(6 ohms at 1 kHz, 10% THD)

Total harmonics distortion

Less than 0.07%
(6 ohms at 1 kHz, 35 W)

(LBT-XB200)

DIN power output (Rated)

70 + 70 watts
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference)

80 + 80 watts
(6 ohms at 1 kHz, 10% THD)

Music power output (Reference)

140 + 140 watts
(6 ohms at 1 kHz, 10% THD)

(LBT-DR330/DR3)

The following measured at AC 110/220 V, 60 Hz;

Continuous RMS power output (Reference)

85 + 85 watts
(6 ohms at 1 kHz, 10% THD)

DIN power output (Rated)

70 + 70 watts
(6 ohms at 1 kHz, DIN)

The following measured at AC 120/240 V, 60 Hz;

Continuous RMS power output (Reference)

100 + 100 watts
(6 ohms at 1 kHz, 10% THD)

DIN power output (Rated)

80 + 80 watts
(6 ohms at 1 kHz, DIN)

Inputs

- PHONO IN (phono jacks):
sensitivity 3 mV,
impedance 47 kilohms
- MD/VIDEO IN (phono jacks):
sensitivity 250 mV,
impedance 47 kilohms

Outputs

- PHONES (stereo phone jack):
accepts headphones of 8
ohms or more
- MD/VIDEO OUT (phono jacks):
voltage 250 mV,
impedance 1 kilohm
- SPEAKER:
accepts impedance of 6 to
16 ohms.

CD player section

- System Compact disc and digital
audio system
- Laser Semiconductor laser
($\lambda = 780$ nm)
Emission
duration: continuous
- Laser output Max. 44.6 μ W*
* This output is the value
measured at a distance of
200 mm from the
objective lens surface on
the Optical Pick-up Block
with 7 mm aperture.
- Wavelength 780 - 790 nm
- Frequency response 20 Hz - 20 kHz (± 0.5 dB)
- Signal-to-noise ratio More than 90 dB
- Dynamic range More than 90 dB
- DIGITAL OUTPUT
(square optical connector jack, rear panel)
- Wave length: 660 nm
- Output level: -18 dBm

Tape player section

- Recording system 4-track 2-channel stereo
- Frequency response (DOLBY NR OFF)
60 - 13,000 Hz (± 3 dB),
using a Sony TYPE I
cassette
- Wow and flutter $\pm 0.15\%$ W. Peak (IEC)
0.1% W. RMS (NAB)
 $\pm 0.2\%$ W. Peak (DIN)

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

- Tuning range
North American model:
87.5 - 108.0 MHz
(100 kHz step)
- Other models:
87.5 - 108.0 MHz
(50 kHz step)

AM tuner section

- Tuning range
North American model:
530 - 1,710 kHz
(with the tuning interval
set at 10 kHz)
- European and Middle Eastern models:
531 - 1,602 kHz
(with the tuning interval
set at 9 kHz)
- Other models:
531 - 1,602 kHz
(with the tuning interval
set at 9 kHz)
530 - 1,710 kHz
(with the tuning interval
set at 10 kHz)
- Antenna AM loop antenna,
External antenna
terminals
- Intermediate frequency 450 kHz

Speakers

SS-DR330/DR3/S3000/XB200 for LBT-DR330/DR3/
S3000/XB200

- Speaker system
(SS-DR330/DR3/S3000/XB200)
2-way, 2-unit, bass-reflex
type
- Speaker units
- Woofer: 17 cm dia., cone type
- Tweeter: 6 cm dia., cone type
- Rated impedance: 6 ohms
- Dimensions (w/h/d) Approx. 250 \times 425 \times 300
mm (9 $\frac{7}{8}$ \times 16 $\frac{3}{4}$ \times
11 $\frac{7}{8}$ in)
- Mass Approx. 5.1 kg (11 lb
4 oz.) net per speaker

General

- Power requirements
North American model:
120 V AC, 60 Hz
- European model: 230 V AC, 50/60 Hz
- Mexican model: 120 V AC, 50/60 Hz
- Australian model: 220 - 240 V AC, 50/60 Hz
- Other models: 110 - 120 V or 220 - 240 V
AC, 50/60 Hz Adjustable
with voltage selector
- Power consumption
(LBT-DR330/DR3) 180 watts
(LBT-S3000/XB200) 135 watts
- Dimensions (w/h/d) Approx. 355 \times 425 \times 442
mm (14 \times 16 $\frac{3}{4}$ \times
17 $\frac{1}{2}$ in) incl. projecting
parts and controls
- Mass Approx. 13.1 kg (28 lb
14 oz.)
- Supplied accessories AM loop antenna (1)
Remote RM-SG7B (1)
FM wire antenna (1)

Design and specifications are subject to change
without notice.

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